

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Kim, et al.

Serial No.: 10/732,904

Confirmation No.: Unassigned

Filed: December 10, 2003

For: Nitrogen-Free Dielectric Anti-
Reflective Coating and Hardmask

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Group Art Unit: Unassigned

Examiner: Unassigned

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

CERTIFICATE OF MAILING
37 CFR 1.8

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2/18/04
Date

Kent R. Zuke
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INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

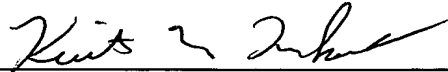
While the information submitted in this Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

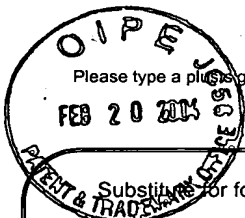
The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/6826.P1/KMT.

Respectfully submitted,



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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 12

Application Number	10/732,904
Filing Date	December 10, 2003
First Named Inventor	Kim, et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	AMAT/6826.P1/DSM/BCVD/JW
Submission Date	February 18, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US-6,596,465	07/22/2003	Mangat, et al.	
	A2	US-6,573,030	06/03/2003	Fairbairn, et al.	
	A3	US-6,541,397B1	04/01/2003	Bencher	
	A4	US-6,514,667	02/04/03	Angelopoulos, et al.	
	A5	US-6,511,909	01/28/03	Yau, et al.	
	A6	US-6,511,903	01/28/03	Yau, et al.	
	A7	US-6,500,772	12/31/02	Chakravarti, et al.	
	A8	US-6,497,963	12/24/02	Grill, et al.	
	A9	US-6,492,731	12/10/02	Catabay, et al.	
	A10	US-6,489,233	12/03/02	Chooi, et al.	
	A11	US-6,485,815	11/26/02	Jeong, et al.	
	A12	US-6,482,754	11/19/02	Andideh, et al.	
	A13	US-6,479,409	11/12/02	Shioya, et al.	
	A14	US-6,479,408	11/12/02	Shioya, et al.	
	A15	US-6,479,407	11/12/02	Yokoyama, et al.	
	A16	US-6,479,110	11/12/02	Grill, et al.	
	A17	US-6,472,317	10/29/02	Wang, et al.	
	A18	US-6,472,264	10/29/02	Agarwal	

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		Number-Kind Code ² (if known)				
	B1	02/43119	05/30/02	WO		
	B2	01/01472	01/04/01	WO		
	B3	00/24050	04/27/00	WO		
	B4	00/19498	04/06/00	WO		
	B5	00/01012	01/06/00	WO		

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**INFORMATION DISCLOSURE
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Sheet 2

of 12

Application Number

10/732,904

Filing Date

December 10, 2003

First Named Inventor

Kim, et al.

Group Art Unit

Unassigned

Examiner Name

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		Number-Kind Code ² (if known)			
	A1	US-6,472,231	10/29/02	Gabriel, et al.	
	A2	US-6,462,371	10/08/02	Weimer, et al.	
	A3	US-6,458,720	10/01/02	Aoi	
	A4	US-6,455,445	09/24/02	Matsuki	
	A5	US-6,448,186	09/10/02	Olson, et al.	
	A6	US-6,448,176	09/10/02	Grill, et al.	
	A7	US-6,441,491	08/27/02	Grill, et al.	
	A8	US-6,437,443	08/20/02	Grill, et al.	
	A9	US-6,432,417	08/13/02	Mellul, et al.	
	A10	US-6,428,894	08/06/2002	Babich, et al.	
	A11	US-6,417,098	07/09/02	Wong, et al.	
	A12	US-6,413,852	07/02/2002	Grill, et al.	
	A13	US-6,413,583	07/02/02	Moghadam, et al.	
	A14	US-6,410,463	06/25/02	Matsuki	
	A15	US-6,410,462	06/25/02	Yang, et al.	
	A16	US-6,383,955	05/07/02	Matsuki, et al.	
	A17	US-6,368,924	04/09/02	Mancini, et al.	
	A18	US-6,348,725	02/19/02	Cheung, et al.	

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		Number-Kind Code ² (if known)				
	B1	99/55526	11/04/99	WO		
	B2	99/33102	07/01/1999	WO		
	B3	99/41423	08/19/99	WO		
	B4	99/38202	07/29/99	WO		
	B5	98/59089	12/30/98	WO		

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number		10/732,904	
				Filing Date		December 10, 2003	
				First Named Inventor		Kim, et al.	
				Group Art Unit		Unassigned	
				Examiner Name		Unassigned	
				Attorney Docket Number		AMAT/6826.P1/DSM/BCVD/JW	
Sheet	3	of	12	Submission Date		February <u>18</u> , 2004	

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		Number-Kind Code ² (if known)			
	A1	US-6,348,421	02/19/02	Shu, et al.	
	A2	US-6,346,747	02/12/02	Grill, et al.	
	A3	US-6,340,628	01/22/02	Van Cleemput, et al.	
	A4	US-6,340,435	01/22/02	Bjorkman, et al.	
	A5	US-6,316,063	11/13/01	Andideh, et al.	
	A6	US-6,312,793	11/06/01	Grill, et al.	
	A7	US-6,303,523	10/16/01	Cheung, et al.	
	A8	US-6,287,990	09/11/01	Cheung, et al.	
	A9	US-6,265,779	06/24/2001	Grill, et al.	
	A10	US-6,258,735	07/10/01	Xia, et al.	
	A11	US-6,245,690	06/12/01	Yau, et al.	
	A12	US-6,238,751	05/29/01	Mountsier	
	A13	US-6,176,198	01/23/01	Kao, et al.	
	A14	US-6,159,871	12/12/00	Loboda, et al.	
	A15	US-6,147,407	11/14/00	Jin, et al.	
	A16	US-6,147,009	11/14/00	Grill, et al.	
	A17	US-6,140,226	10/31/00	Grill, et al.	
	A18	US-6,124,641	09/26/00	Matsura	

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		Number-Kind Code ² (if known)				
	B1	98/08249	02/26/98	WO		
	B2	11-251293	09/17/99	JP		
	B3	10-242143	09/11/98	JP		
	B4	09-260369	10/03/97	JP		
	B5	09-251997	09/22/97	JP		

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/732,904
		Filing Date	December 10, 2003
		First Named Inventor	Kim, et al.
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	AMAT/6826.P1/DSM/BCVD/JW
Sheet 4	of 12	Submission Date	February 18, 2004

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
	A1	US-6,093,973	07/25/00	Ngo, et al.	
	A2	US-6,080,526	06/27/00	Yang, et al.	
	A3	US-6,078,133	06/20/00	Menu, et al.	
	A4	US-6,072,227	06/06/00	Yau, et al.	
	A5	US-6,068,884	05/30/00	Rose, et al.	
	A6	US-6,054,379	04/25/00	Yau, et al.	
	A7	US-6,048,786	04/11/00	Kudo	
	A8	US-6,054,206	04/25/00	Mountsier	
	A9	US-6,051,321	04/18/00	Lee, et al.	
	A10	US-6,030,904	02/29/00	Grill, et al.	
	A11	US-6,037,274	03/14/00	Kudo, et al.	
	A12	US-6,007,732	12/28/99	Hashimoto, et al.	
	A13	US-5,998,100	12/07/99	Azuma, et al.	
	A14	US-5,989,998	11/23/99	Sugahara, et al.	
	A15	US-5,981,000	11/09/99	Grill, et al.	
	A16	US-5,926,740	07/20/99	Forbes, et al.	
	A17	US-5,891,799	04/06/99	Tsui	
	A18	US-5,888,593	03/30/99	Petrmichl, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)				
	B1	09-237785	09/09/97	JP		
	B2	09-064029	03/07/97	JP		
	B3	09-008031	01/10/97	JP		
	B4	01-125193	05/17/89	JP		
	B5	2000306999 (abstract)	11-02/00	JP		

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Sheet	5	of	12	Submission Date	February <u>18</u> , 2004

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		Number-Kind Code ² (if known)			
	A1	US-5,874,367	02/23/99	Dobson	
	A2	US-5,858,880	01/12/99	Dobson, et al.	
	A3	US-5,837,331	11/17/98	Menu, et al.	
	A4	US-5,834,162	11/10/98	Malba	
	A5	US-5,830,332	11/03/98	Babich, et al.	
	A6	US-5,821,168	10/13/98	Jain	
	A7	US-5,807,785	09/15/98	Ravi	
	A8	US-5,800,877	09/01/98	Maeda, et al.	
	A9	US-5,795,648	08/18/98	Goel, et al.	
	A10	US-5,789,319	08/04/98	Havemann, et al.	
	A11	US-5,780,874	07/14/98	Kudo	
	A12	US-5,773,199	06/30/98	Linliu, et al.	
	A13	US-5,753,564	05/19/98	Fukada	
	A14	US-5,753,319	05/19/98	Knapp, et al.	
	A15	US-5,750,316	05/12/98	Kawamura, et al.	
	A16	US-5,739,579	04/14/98	Chiang, et al.	
	A17	US-5,703,404	12/30/97	Matsuura	
	A18	US-5,700,720	12/23/97	Hashimoto	

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		Number-Kind Code ² (if known)				
	B1	2 316 535	02/25/98	GB		
	B2	1 176 226 A1	01/30/02	EP		
	B3	1 123 991 A2	08/16/01	EP		
	B4	1 037 275 A1	09/20/00	EP		
	B5	0 935 283 A2	08/11/99	EP		

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	A1	US-5,693,563	12/02/97	Teong	
	A2	US-5,683,940	11/04/97	Yahiro	
	A3	US-5,679,413	10/21/97	Petrmichl, et al.	
	A4	US-5,679,269	10/21/97	Cohen, et al.	
	A5	US-5,674,355	10/07/97	Cohen, et al.	
	A6	US-5,641,607	06/24/97	Ogawa, et al.	
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	A16	US-5,494,712	02/27/96	Hu, et al.	
	A17	US-5,360,491	11/01/94	Carey, et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)				
	B5	0 926 724 A2	06/30/99	EP		
	B1	0 926 715 A2	06/30/99	EP		
	B2	0 960 958 A2	12/01/99	EP		
	B3	0 935 283 A2	08/11/99	EP		
	B4	0 885 983 A1	12/23/98	EP		

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/732,904
		Filing Date	December 10, 2003
		First Named Inventor	Kim, et al.
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	AMAT/6826.P1/DSM/BCVD/JW
Sheet 7	of 12	Submission Date	February 18, 2004

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
	A1	US-5,186,718	02/16/93	Tepman, et al.	
	A2	US-4,486,286	12/04/84	Lewin, et al.	
	A3	US-2003/0111730A1	06/19/2003	Takeda, et al.	
	A4	US-2003/0091938	05/15/03	Fairbairn, et al.	
	A5	US-2003/0089988A1	05/15/2003	Matsuura	
	A6	US-2003/0020108	05/15/2003	Matsuura	
	A7	US-2003/0017718	01/23/03	Aoi	
	A8	US-2003/0003765A1	01/02/2003	Gibson, Jr., et al.	
	A9	US-2003/0001239	01/02/03	Gallahger, et al.	
	A10	US-2002/0198353	12/26/02	Chen, et al.	
	A11	US-2002/0192982	12/19/02	Andideh, et al.	
	A12	US-2002/0185741	12/12/02	Babich, et al.	
	A13	US-2002/0177329	11/28/02	Yang, et al.	
	A14	US-2002/0177303	11/28/02	Jiang, et al.	
	A15	US-2002/0173172	11/21/02	Loboda, et al.	
	A16	US-2002/0173157	11/21/02	Chang, et al.	
	A17	US-2002/0168870	11/14/02	Matsuki	
	A18	US-2002/0164891	11/07/02	Gates, et al.	

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	B1	0 849 789 A2	06/24/98	EP		
	B2	0 840 365 A2	06/05/98	EP		
	B3	0 826 791 A2	03/04/98	EP		
	B4	0 774 533 A1	05/21/97	EP		
	B5	0 771 886 A1	05/07/97	EP		

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		Filing Date	December 10, 2003
		First Named Inventor	Kim, et al.
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	AMAT/6826.P1/DSM/BCVD/JW
Sheet 8	of 12	Submission Date	February 18, 2004

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		Number-Kind Code ² (if known)			
	A1	US-2002/0164868	11/07/02	Chang, et al.	
	A2	US-2002/0160626	10/31/02	Matsuki, et al.	
	A3	US-2002/0160604	10/31/02	Quek, et al.	
	A4	US-2002/0158337 A1	10/31/02	Babich, et al.	
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	A7	US-2002/0098714	07/25/02	Grill, et al.	
	A8	US-2002/0098684	07/25/02	Li, et al.	
	A9	US-2002/0076944	06/20/02	Wang, et al.	
	A10	US-2002/0068458	06/06/02	Chiang, et al.	
	A11	US-2002/0055672	05/09/02	Zhang	
	A12	US-2002/0028392 A1	03/07/02	Jin, et al.	
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	B1	0 224 013	06/03/87	EP		
	B2	0 768 388 A2	04/16/97	EP		
	B3	0 696 819 A1	02/14/96	EP		
	B4	0 701 283 A2	03/13/96	EP		
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	B6	198 04 375 A1	01/07/99	DE		
	B7	196 54 737 A1	07/03/97	DE		

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				Filing Date	December 10, 2003
				First Named Inventor	Kim, et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	AMAT/6826.P1/DSM/BCVD/JW
Sheet	9	of	12	Submission Date	February 18, 2004

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	C1	Robles, et al. <i>Characterization of High Density Plasma Chemical Vapor Deposited x-Carbon and x-Fluorinated Carbon Films for Ultra Low Dielectric Application</i> , February 10-11, 1997 DUMIC Conference, pgs. 26-33	
	C2	Bar-Ilan, et al. <i>A Comparative Study of Sub-Micro Gap Filling and Planarization Techniques</i> , Tower Semiconductor Ltd., Israel, SPIE Vol. 2636, pgs. 277-288	
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	C4	McClatchie, <i>Low Dielectric Constant Oxide Films Deposited Using CVD Techniques</i> , February 16-17, 1998 DUMIC Conference, pgs. 311-318	
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	C10	Deen, et al. <i>Silicon Nitride and Silicon Dioxide Thin Insulating Films</i> , Dielectric Science and Tech and Electronics Div. Proceedings, Vol. 97-10, pgs. 443-453	

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	C11	Brown, <i>Dielectric Material Integration for Microelectronics</i> , Dielectric Science and Technology and Elect Divisions Proceedings, Vol. 98-3 (8 pages)	
	C12	Grill, et al., <i>Novel Low-k Dielectrics Based on Diamondlike Carbon Materials</i> , IBM Research Division, pgs. 1649-1653	
	C13	Lin, et al., <i>Plasma Polymerization of Trimethylsilane in Cascade Arc Discharge</i> , Dept. of Chem. Engineering and Center for Surface Science and Plasma Technology, University of Missouri-Columbia, February 4, 1997, pgs. 1653-1665	
	C14	Peters, <i>Pursuing the Perfect Low-K Dielectric</i> , 64 Semiconductor International, September 1998, (7 pages)	
	C15	Grill, et al., <i>Low Dielectric Constant Films Prepared by Plasma-enhanced Chemical Vapor Deposition from Tetramethylsilane</i> , IBM Research Division, pgs. 3314-3318	
	C16	Wrobel, et al. <i>Reactivity of Alkylsilanes and Alkylcarbosilanes in Atomic Hydrogen-induced Chemical Vapor Deposition</i> , Polish Academy of Sciences, Centre of Molecular and Macromolecular Studies, pgs. 1060-1065	
	C17	Mahorowala, et al., <i>Tunable Anti-Reflective Coatings with Built-in Hard Mask Properties Facilitating Thin Resist Processing</i> , Proceedings of SPIE, Vol. 4343 (2001) pgs. 306-316	
	C18	Singer (editor), <i>Anti-Reflective Coatings: A Story of Interfaces</i> , Semiconductor International, March 1999	
	C19	Taylor, et al., <i>Parylene Copolymers</i> , Texas Instruments, Inc., 1997, pgs. 1-9	
	C20	Grill, et al., <i>Diamondlike Carbon Materials as Low-k Dielectrics</i> , Mat. Res. Soc., 1997, pgs. 417-423	

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				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	AMAT/6826.P1/DSM/BCVD/JW
Sheet	11	of	12	Submission Date	February 18, 2004

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	C21	Wu, et al "Advanced Metal Barrier Free Cu Damascene Interconnects with PECVD Silicon Carbide Barriers for 90/65-nm BEOL Tech", 2002 IEEE, IEDM P 595-598.	
	C22	Licata, et al. "Dual Damascene Al Wiring For 256M DRAM; June 27-29, 1995 VMIC Conference, 1995 ISMIC – 104/95/0596	
	C23	Endo, Kazuhiko; and Tatsumi, Toru, "Preparation and Properties of Fluorinated Amorphous Carbon Thin Films by Plasma Enhanced Chemical Vapor Deposition", Mat. Res. Soc. Symp. Proc. Vol. 381, 1995	
	C24	Nguyen, et al. "A Novel Damascene Process for One Mask Via/Interconnect Formation", 1996 Symposium on VLSI Tech Digest of Technical Papers.	
	C25	Lakshminarayanan, et al., "Contact and Via Structures with Coper Interconnects Fabricated Using Dual Damascene Technology", IEEE Electron Device Letters, Vol. 15, No. 8, August 1994.	
	C26	Grill, et al. "Diamondlike Carbon Films by rf plasma assisted chemical vapor deposition from acetylene", IBM J. Res. Dev. Vol. 34 No. 6 Nov. 1990.	
	C27	Kaanta, et al., "Dual Damascene: A ULSI Wiring Technology", June 11-12, 1991 VMIC Conference, TH-0359-0/91/0000-0144.	
	C28	Hasegawa, et al. "Copper Dual Damascene Interconnects with Low-K ($K_{eff} < 3.0$) Dielectrics Using Flare [™] and an Organo-Silicate Hard Mask", LSI Business & Technology Development Group, C.N.C. Sony Corporation; IEDM 99-623; pgs 26.4.1 – 26.4.4	
	C29	U.S. Application 10/375,852 filed on February 25, 2003.(AMAT/2592.C5)	
	C30	U.S. Application 10/196,498 filed on July 15, 2002 (AMAT/6084)	

Examiner	Date Considered
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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/732,904
Filing Date	December 10, 2003
First Named Inventor	Kim, et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	AMAT/6826.P1/DSM/BCVD/JW
Submission Date	February <u>19</u> , 2004

Sheet 12

of 12

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	C31	U.S. Application 10/247,404 filed on June 19, 2002 (AMAT/6084.P1)	
	C32	U.S. Application 10/096,503 filed on March 12, 2002 (AMAT/6084.02)	
	C33	U.S. Application 09/627,667 filed on July 28, 2000.(AMAT/4683)	
	C34	U.S. Application 10/122,106 filed on April 11, 2002. (AMAT/6166)	
	C35		
	C36		
	C37		
	C38		
	C39		
	C40		
	C41		

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